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मानक

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IS 8404-2 (1979): Fixed Playground Equipment for Schools,
Part II: Climbing Ropes [PCD 22: Sports Goods]



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“Knowledge is such a treasure which cannot be stolen”

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Indian Standard

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**SPECIFICATION FOR
FIXED PLAYGROUND EQUIPMENT FOR SCHOOLS**

PART II CLIMBING ROPES

1. Scope — Requirements for climbing ropes used in conjunction with steel tubular playground equipment erected in school premises for school children up to the age of 12 years.

2. Terminology — For the purpose of this standard, the following definition in addition to those given in IS : 3871-1966 'Glossary of terms relating to fibre ropes and cordages' shall apply.

2.1 Climbing Rope — A rope, the upper end of which is made attachable to a horizontal steel tube by the riveting of a clamp through the rope and the lower end of which is treated to prevent the strands from unravelling.

3. Material

3.0 General — In addition to the relevant requirements given in 2 of IS : 8404 (Part I)-1977 'Specification for fixed playground equipment for schools: Part I General requirements', the requirements given in 3.1 to 3.1.5 shall apply.

3.1 Rope — Hemp or flax as ordered by the purchaser. Rope fibre shall be clean and free from dust, dry pulp or any other foreign matter.

3.1.1 Whipping — Tarred hemp or flax twine.

3.1.2 Clamp — Mild steel or wrought iron.

3.1.3 Rivets — Mild steel.

3.1.4 Leather — Chrome-tanned cow/buff hide or synthetic leather.

3.1.5 Cotton thread — Conforming to Variety No. 35 [98 tex × 8 (6^s/8)] of IS : 1720-1969 'Specification for cotton sewing threads (first revision)'.

4. Construction

4.1 Climbing ropes shall be four-strand, shroud-laid, with or without heart as ordered.

4.2 Top end of the climbing rope shall be bound with tarred twine which shall extend to a distance of 228 mm along the surface of the rope. A clamp shall be fitted over the rope and secured by three rivets, 6 mm in diameter.

4.3 Lower end of the climbing rope shall be finished by one of the following methods:

- a) A leather cap, double sewn on to the rope. Before applying the cap lower end of the rope shall be bound either with tarred hemp or flax twine.
- b) A sail-maker's whipping.
- c) Either a back splice or a tapered back splice having at least two full tucks followed by at least two further tucks for each of which one-third of the strands of the free ends are cut away.
- d) Tapered ends, if specially ordered.

4.4 Stopper knots shall not be used.

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5. Dimensions

5.1 Rope — Diameter of the rope shall be 35 mm to 40 mm. Length of the rope shall be as agreed to between the purchaser and the supplier. However, unless specifically ordered by the purchaser, the length shall be such that when fixed to the supporting steel tube, lower end of the rope shall be not less than 300 mm and not more than 450 mm above ground level.

5.2 Leather Cap — Thickness of leather = 1.5 to 2.0 mm, overall length = 100 ± 2 mm minimum.

6. Marking — The climbing rope shall be suitably attached with a tag marked with manufacturer's name, initials or registered trade-mark.

6.1 ISI Certification Marking — Details available with the Indian Standards Institution.

7. Packing — As agreed to between the purchaser and the supplier.